

ENGLISH ABSTRACTS OF JP 4-101352, JP 4-174977, AND JP 05144482

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Patent number - JP 05144482 A 19930611 [JP05144482]
Title - CYLINDRICAL AIR CELL AND ELECTRODE MANUFACTURING METHOD
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Application - JP30881491 19911125 [1991JP-0308814]
Main Int. Class - H01M-012/06
Abstract - PURPOSE: To realize an air cell excellent in the discharging performance and storage characteristics by equipping it with a positive electrode which is a cylindrical air electrode of four-ply structure furnished with a gas diffusion layer, in particular free of any junction.
- CONSTITUTION: A cylindrical air electrode is embodied in a four-ply structure consisting, from the inside, of a catalyst layer 1, current collector layer 2 of metal, gas diffusion layer 3, and oxygen selective transmitting film layer 4, wherein the catalyst layer 1 is formed by winding a catalyst layer sheet having the oxygen gas reducing ability on a jig in the form of a column while the current collector layer is formed by knitting metal wires into the periphery of this column. Further thereover the gas diffusion layer 3 free of junction is formed by means of extrusion molding, and the oxygen selective transmitting film 4 is wrapped as the outermost layer. Then the columnar jig is drawn off to yield cylinder of four-ply structure.
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